



PROJECT MILESTONES

Preliminary Plans

May 2015

Permitting

October 2015

Final Design

January 2016

Right-of-Way Complete

August 2016

Bid Advertisement

September 2016

Contract Award

November 2016

Target Construction Schedule

Summer 2017

Johnson

VT Route 100C Bridges 1 and 2

Johnson BF 0248-2(4)

Project Location: Town of Johnson in Lamoille County on VT Route 100C over the right and left branches of the Gihon River. The site is approximately 1.0 mile north of the intersection of VT Route 15 and VT Route 100C in the Town of Johnson.

The Johnson VT 100C Bridges 1 and 2 project will replace the existing superstructures (deck and beams), which have a substandard width, horizontal alignment and stopping sight distance, and hydraulic and structural capacity, with wider superstructures providing improved hydraulic clearance. The existing Johnson VT 100C Bridges 1 and 2 are 38' and 54' long concrete T-beam bridges constructed in 1929 and 1928, respectively. The current width of the bridges is 21 feet 4 inches. The bridge superstructure (deck and beams) components are in poor condition. There is heavy deterioration in the beams of Bridge 2.

VTrans evaluated alternatives for replacement of the Johnson VT 100C Bridges 1 and 2 in an engineering study completed in October 2013. The study assessed the proposed design criteria for bridge and roadway alignment, right of way impacts, historical and archaeological resources. Several alternatives were considered including no action, patching, superstructure replacement and full bridge replacement. Given the alignment issues and the age and condition of the structures, the engineering study recommended superstructure replacements using Accelerated Bridge Construction (ABC) methods with an offsite detour.

The new superstructures will be comprised of prefabricated bridge elements which have a relatively short construction period and comparatively low construction and maintenance costs. The new superstructures will be 28' wide including two 11-foot travel lanes and two 3-foot shoulders. The new bridges will feature a combination concrete and steel bridge rail that meets historic preservation requirements.

The bridges will be constructed with ABC methods, which will expedite construction and reduce disturbance to the public. The current schedule calls for one 4-6 week road closure for the replacement of both bridge superstructures. Temporary single lane closures before and after the complete closure period may also be necessary.



*Beam Deterioration
Bridge 2*



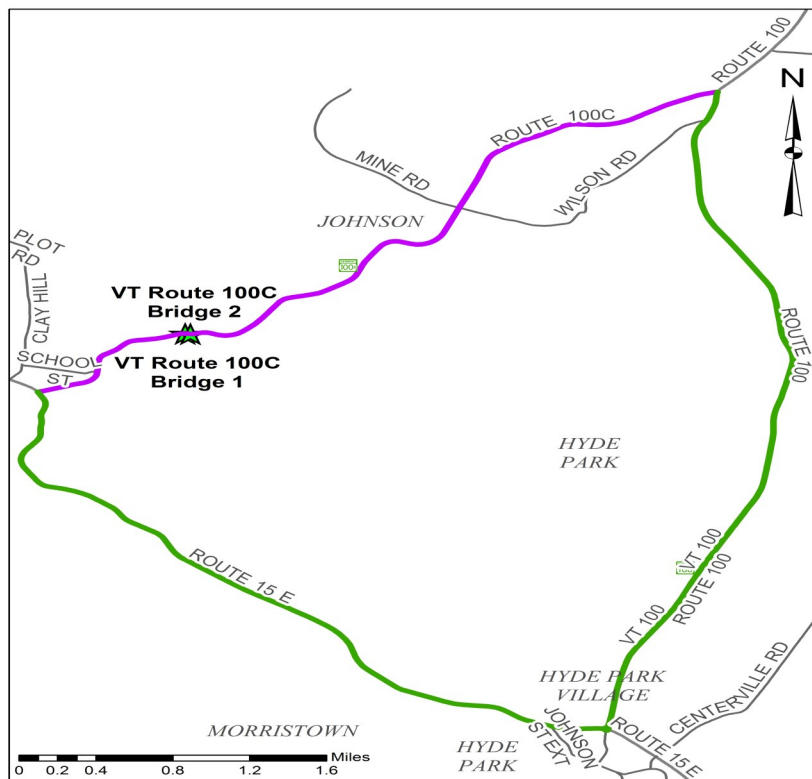
Target Construction Schedule: The superstructures are planned to be replaced during the 2017 Construction season.

Contractor: To be determined

Cost: To be determined

VTrans Project Manager: Wendy Pelletier, P.E., Structures Project Manager

Detour Route: To reach destinations east of the closure on VT Rt 100c (approaching from the west) head south on VT Rt 15. In Hyde Park Village, turn left, heading north on VT Rt 100, until you reach the intersection with VT Rt 100c. Reverse this path to reach locations west of closure on VT Rt 100c, if approaching from the east. The detour route is approx. 5 miles longer than travelling the length of VT RT 100c.



Detour Map



Pumping station & River south of BR 2



Approach rail will be extended and improved



<https://www.facebook.com>



<https://twitter.com/511VT>

For more information, please go to the following file:
<https://outside.vermont.gov/agency/vtrans/external/Projects/Structures/13C066>